

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/053764 A1

- (51) International Patent Classification⁷: **A61L 27/30**, (74) Agent: DR LUDWIG BRANN PATENTBYRÅ AB; P.O. Box 17192, S-104 62 Stockholm (SE).
A61K 6/06, 6/27, C04B 7/32, 41/52
- (21) International Application Number: PCT/SE2004/001745
- (22) International Filing Date: 25 November 2004 (25.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0303169-7 27 November 2003 (27.11.2003) SE
- (71) Applicant (for all designated States except US): DOXA AB [—/SE]; Axel Johanssons gata 4-6, Kristallen, S-754 51 Uppsala (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HERMANSSON, Lelf [—/SE]; Länna Gård, S-740 11 Länna (SE). ENGQVIST, Håkan [—/SE]; Margaretavägen 12, S-741 44 Knivsta (SE). LÖÖF, Jesper [—/SE]; Lidnersgatan 40, S-754 42 Uppsala (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 2005/053764 A1

(54) Title: IMPLANT AND METHOD OF PRODUCING THE SAME, AND A SYSTEM FOR IMPLANTATION

(57) Abstract: The present invention relates to a coated implant for in vivo-anchoring of implants to a biological tissue or another implant, which coated implant comprises an implant having a pre-treated surface and on said pre-treated surface one or more layers of ceramic material chemically and/or mechanically bound to said pre-treated surface. Said one or more layers comprises mainly non-hydrated chemically bonded ceramic material, and each layer independently comprises a first binder phase selected from the group consisting of aluminates, silicates, phosphates, sulphates and combinations thereof. The invention further relates to method of manufacturing said coated implant, a ceramic paste and to a kit comprising said coated implant and ceramic paste. The invention is particularly suitable for dental and orthopaedic implants.